

Schena, Cristeen

From: Aram Varjabedian <avarjabedian@woodardcurran.com>
Sent: Friday, July 13, 2018 11:54 AM
To: 'david. burns'; Turin, David
Cc: jstruzziery@town.hull.ma.us; Robert Scott; Bill Boornazian; Frank Cavaleri
Subject: Hull, MA WPCF - MA0101231 - Permit exceedence

Good morning:

I wanted to inform you that we had a maximum daily exceedance for a fecal coliform sample that was collected on Wednesday 7/11/18. We were informed of the results from our contract lab G&L Labs yesterday [7/12/18].

Max daily fecal coliform limit – 260 CFU/100ml

Result for 7/11/18 – 445 CFU/100ml

The chlorine residual at the time of sampling was 0.9 mg/L and consistent with our targets. Upon raising the chlorine dose yesterday we saw that the residual yesterday was being maintained adequately, however, this morning we found a lower residual in the facility effluent. After reviewing other factors that could exert additional chlorine demand, such as nitrite nitrogen, and partial nitrification, effluent TSS & turbidity, we didn't feel that this were contributing factors. There is some partial nitrification evident, however.

Further inspection of pumps, lines, off-gas pockets, we found a cracked collar on a PVC ball valve at the injection point that was leaking. Upon further evaluation, we found that the injection quill was partially blocked and not allowing the required amount of sodium hypochlorite into the effluent discharge line.

We re-routed the disinfecting chemical to the effluent wetwell for the short-term so that repairs can be made to the PVC piping and fittings. A repeat sample is being collected today for fecal and enterococci analysis and will be delivered to the contract lab.

We will update you on those results when we receive them on Saturday.

Should you have any questions or need additional information, please let me know.

Sincerely,

Aram

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